

Applicants: SREEKUMARAN NAIR,  
Appukuttan, Nair et al.  
Serial No.: To be assigned  
Filed: Herewith  
Page 2

**Amendments to the Specification:**

On page 1, immediately after the title, please insert:

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**PRIOR APPLICATION DATA**

The present application is a national phase application of International Application PCT/IN2005/000022, entitled "ADSORBENT COMPOSITION, A DEVICE AND A METHOD FOR DECONTAMINATING WATER CONTAINING PESTICIDES" filed on January 19, 2005, which in turn claims priority from Indian application number 51/CHE/2004, filed on January 22, 2004, all of which are incorporated by reference in their entirety. --

On page 1, line 8, please replace:

-- **TECHNICAL FIELD OF THE INVENTION:--**

with:

-- ~~TECHNICAL FIELD OF THE INVENTION~~ [[:]]

Embodiments of the invention relate to technologies for removing pesticides from water for the production of safe drinking water. --

Please delete the paragraph on page 1, beginning on line 8 and ending on line 29.

On page 2, line 6, please insert:

-- Majority of water bodies in the developed and developing countries are contaminated with organo-halogen and organo-sulphur pesticides as a result of their wide spread use in agriculture. Clean-up of such contaminated water bodies impose colossal financial burden on governmental and non-governmental organizations. Most developing countries do not have an effective system for removing pesticides from water. As a result pesticide-free drinking water is still a distant dream for most of the countries. A cheap and widely acceptable technology for removing pesticides from water for the production of safe drinking water has been a long-felt need in both the developed and developing countries. --

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Page 3

On page 2, line 20, please replace:

**-- OBJECTS OF THE INVENTION:--**

with:

**-- OBJECTS OF THE INVENTION: SUMMARY**

Our invention relates to adsorbent compositions consisting of nanoparticles of silver and gold supported on activated alumina, magnesia and other suitable substrates, which are found effective in removing most common pesticides like chlorpyrifos and malathion chemically known as 0,0-Diethyl-O-(3,5,6-trichloro-2-pyridyl phosphonothioate and S-1,2-bis(ethoxycarbonyl)ethyl 0,0-dimethyl phosphorodithioate, respectively from flowing and static water. The method is also applicable for the removal of other chlorine and sulphur containing pesticides from water in addition to those mentioned above. This invention also relates to a device particularly attachable to on-line supply of drinking water and a method for decontaminating water containing pesticides. –

On page 4, line 5, please delete:

**-- BRIEF DESCRIPTION OF THE INVENTION –**

On page 5, lines 16-17, please delete:

**-- BRIEF DESCRIPTION WITH REFERENCE TO THE DRAWINGS --**

On page 6, lines 19-20, please replace:

**-- DETAILS OF STUDY ARE SHOWN IN THE FIGURES ACCOMPANIED  
HEREWITH IN WHICH:--**

with:

**-- ~~DETAILS OF STUDY ARE SHOWN IN THE FIGURES ACCOMPANIED  
HEREWITH IN WHICH:~~ BRIEF DESCRIPTION OF THE DRAWINGS --**

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Page 4

Please replace the paragraphs on page 7, beginning on line 5 and ending on line 9, with the following:

-- Figs. 5 and 6 ~~shows~~show graphical representations of gas chromatogram indicating the complete removal of chlorpyrifos from water using supported nanoparticles of silver.

Figs. 7 and 8 ~~shows~~show graphical representations of infrared spectra indicating pesticide adsorption on nanoparticles' surface. --

On page 7, line 10, please insert:

-- **DETAILED DESCRIPTION OF THE INVENTION** --